BUILDER OF U, P. HURT IN QUAKE

Gen. John Casement Had Three Ribs Broken in the Up-

PINNED DOWN IN BED IN VENDOME HOTEL

He Makes a Brief Visit in Salt Lake, En Route East.

General John Casement, famous cavalry leader of the Civil war, builder of the Union Pacific railroad from Omaha to Promontory Point, prominent builder of aliroads in other countries and lastly a hero of the California earthquake at San Jose, is in the city and registered at the Wilson hotel, with Mrs. Casement, and members of his family. They are en route east after having spent the winter in California.

in California.

General Casement and family had spent the winter at Los Angeles and other towns of Southern California. They had started for the East by the way of San Francisco, with stops at Santa Cruz and San Jose. Upon arriving at the latter city Gen. Casement and family went to the Vendome hotel, where they were spending their last night before departing for San Francisco.

Experienced 'Quakes Before.

Experienced 'Quakes Before.

At the Vendome the General and his family had a suite of rooms in the front part of the house, which was so greatly damaged. When the shock came, Mra. Casement, who was thrown from the bed and who had passed through a number of carthquakes in Costa Rica, where she had been with the General for six years, where he had been constructing a railroad for the government, immediately ran to the joining room where her cousin was and informed her that it was "only an carthquake"

General Pinned in Bed.

General Pinned in Bed.

Mrs. Casement succeeded in getting out of the room, but the General was not so fortunate, and the ceiling and two stones tell, pinning the General in the bed. Mrs. Casement quickly secured help and cut the debris away so they could get the General out, who was found to be suffering with three broken ribs and a slight injury to his lungs. The best available medical attention was provided for the veteran railway builder and within a short time the party was able to travel, which they did, coming to Sait Lake by the way of Oakland. The Vendome hotel is a complete wreck.

His Part in Civil War.

His Part in Civil War.

In the war of the rebellion General Casement enlisted in 1851 and served four years. He was in command of the Seventh and Second divisions of Ohio cavairy and later had additional troops in his division. At the battle of Shenandoah with General Phil Sheridan his division played a prominent part in that memorable engagement. Throughout the Civil war General Casement and his cavairy figured in a number of important engagements.

Built the Union Pacific.

Built the Union Pacific.

At the close of the war in 1865, General Casement came west to Omaha, where he took the contract for the grading and laying of the track of the Union Pacific from that city west to Utah, of which he built about three-fourths. In the fall of 1865 the General and his men started grading and track-laying in the Platte valley, but early in the following spring preparations for pushing the work west were commenced and vigorously prosecuted. The contract taken by General Casement from the owners called for the huilding of three miles of track per day, which was done.

There were two winters after the builders had reached the mountains that they could not work, but during the last thirteen months of the work 555 miles of track were laid. Promentory Point was reached in May, 1889, where the builders of the East under General Casement, met those from the West under Stanford, Huntington and others.

Interesting Experiences.

miles of the common to the miles of miles of the form the West under Stanford, Huntington and others.

General Casement relates some interesting Experiences he passed through during the three years he was engaged in railroad construction. He met all the pioneers and founders of the State of Utah, including the last Brigham Young, John Weber Canyon, President Taylor, who had met a similar affliction was making a trip from the East to Selt Lake, was sone-bound and spent a week in the camp with General Casement, The past six years General Casement, where he built a railroad for that government, which was completed about a year sign.

In speaking of the future of San Fractisco, General Casement said the future of San Fractisco, General Casement said the rectiling of the trade though the results of the stands in the calling of the future of San Fractisco, General Casement said the rectiling of the rade though the results of the stands in the calling of the rade though the results of the rade though the results of the rade though the rade through through the rade

Will Rebuild City.

In speaking of the future of San Francisco, General Casement said that the Golden Gate stands in the way for a direct line of the trade of the world, and although the present disaster will materially injure many during the present generation, that it will help the city in the long run and that within another generation there will be a better and larger city. The people of the world are beginning to realize that there is trade in the Far East and that it is valuable and is now only in its infancy and will grow to great proportions in the future, and that this country can't help but trade there, and the most natural and most convenient way to the Orient is through San Francisco, which has one of the best harbors in the world. The Californians are a plucky dies of people and will not succumb to the disaster, but will go ahead and rebuild a greater San Francisco, and will start in upon it right sway.

Are on Way East.

Are on Way East.

General Casement and family will visit with his son in Colorado and then will proceed on east to he home in Painesville, O. While here General Casement was met by his old comrade and staunch friend, Col. Matt Daugherty, who served in one of the General's cavalry troops in the Civil war. The two gentlemen spent some very enjoyable hours talking and Joshing about the days and incidents of the war. Many other veterans of the war, Many other veterans of the war, some of whom were from Ohio, called upon their old comrade, who, in spite of his three score and seventeen years, is as young as many half the age. He is one of these fine, clean-cut Americans, whose spiendid military bearing commands the respect of those who meet tim. He is one of the "boys" and always has time for a pleasant word with the young ones as well as old comrades. Are on Way East.

BOYS BEAT GIRLS

What Report of Health Board Shows for Past Week.

Thirty-one births were reported to the local Board of Health during the week ending Saturday noon. Of these, It were males. Twenty-one deaths were reported, of which II were males. Two were shipped here for burial.

Ten cases of contagious and infectious itseases were reported; Smallpox, 5, diphtheria, 2; pneumonia, 2; chicken pox.

diseases were reported; Smallpox, 5, diphtheria, 2; pneumonia, 2; chicken pox 1. In the Isolation hospital there are 2 cases of smallpox, in quarantine there are 2 cases of smallpox, 3 cases of scarlet fever and five cases of diphtheria.

Song Service.

There will be a some service at Phillips Congregational church at 7:45 o'clock this evening. There will be a sale by Mrs. Nell Pinkerton Moore and John James. The Collegate, as well at the church quartette, will also sing.

LIST OF MISSING IS GREATLY DECREASED

Comparatively Few Inquiries No Favoritism Will Be Shown Are Now Reaching The Tribune.

The list of missing persons in San Francisco over whose fate the people of Utah and adjoin ing States have been anxious, is growing pleas ingly less, as a result of the good work that has been done in the matter of locating those for whom inquiry has been made. The follow-ing list reached The Tribune Saturday: B

BLUA, JAMES, Vallejo and Margaret place, off Dupont street. Andrew Blua, Utah Macaroni company, BOLAN, THOMAS H., and wife, 598 Bush street. D. 12 Hemphill, 67 J street. ROWERS, MRS. W. E., 528 Sutter street or 208 Bush street Mrs. L. S. Dean, 519 East Third South.

C CARLSON WILLIAM and MART. San Francisco. Peter Haggman, Bingbam Canyon CUSHMAN, FRANK, S. P. shops. Mrs. CUSHMAN, 256 West Fifth South. CAIN. J. R., San Francisco. Mrs. C. Rob-ertson, 557 North First West. CRUMPLABER, MISSES STEPHANA and ESTHER. Mrs. C. M. Cook, \$74 East Second South.

EVANS, CLAUDE, 384 Fourth street. W. H. Grogan, Albany hotel. L

LAKE, MRS J., San Francisco. Mrs. C. M. Cook, 574 East Second South.

MERRY, MR. and MRS GEORGE E., 115 utter street. M. L. Robinson, 104 Atlas block. R

ROONET, CHARLES and wife, Sacramento street. Mrs. Carrie Patterson, 11s South Fourth West. RAWIJNS, Mrs. A. 2845 Mission street. Mitchell, 124 Mead street. S SPIRLING FRANK, Parrot building M.

Robinson, 504 Atlas block. SCHNEIDER, MINNIE REIF, 50 Sherman treet. Mrs. Williamson, 164 East Second street. Mrs. Williamson, 164 East Second South SWEDLUND, ANDREW and family, 2101 Bush street. A. E. H. Peterson, 435 East Second South SILK, MRS. CHARLES, Sacramento street. Mrs. Carrie Patterson, 116 South Fourth West. T

THOMAS, MISS LUCY, 513% Dupont street. Ellas Thomas, 55 J street. W

WIGHT, MRS A. R., 265 East Julian street, San Jose. Mrs. J. W. Merrill, 970 East First South,

GREAT WORK WAS DONE

E. C. Robinson Says Idaho and Colorado Did Nobly.

"I have just come from Idaho and Montana," said E. C. Robinson, who is at the Wilson, and represents the Colorado Rubber company of Denver.
"If the people of all the States do anything like the good people of these States have done there will be no lack of money or clothing in San Francisco. To Help Sufferers.

"Why, sir, I have sold large bills of rubber boots and shoes and all sorts of surgical and medical rubber goods to pri-vate parties for delivery to the hospital service in San Francisco. They talk of mine owners being mean, I can cite cases of such big-heartedness as would chal-lenge belief, if I were at liberty to give

Not Seeking Publicity. "The beauty of it all is these great-hearted fellows do not want their names

in print."
If have been a caller in Salt Lake for many years, and I see her chance to benefit greatly through traffic with the stricken coast."

NEW ROAD FOR UTAH

Capitalists to Build New Highway From Provo to Logan.

From Provo to Logan.

Articles of incorporation of the Prove & Logan Railroad company were filed in the office of the Secretary of State Saturday. The intention of the incorporators is to build a read from Provo to Logan through Utah Sait Lake, Weber, Box Elder and Cashe counties. The road will be propelled by steam, electricity or other convenient motive power. The capital stock is \$150,000, divided into shares of the par value of \$100. Officers and directors are David Ecoles, president; Matthew S. Browning, vice-president; Hiram H. Spenser, treasurer: Charles H. Kirchner, secretary, These together with Henry H. Rolapp, Neis C. Flygare and Robert S. Joyce constitute the board of directors.

Dr. Keate Left \$10,000.

Application for letters isstamentary of the will of the late Dr. Walter Keate, who died of Bright's disease April 15 in the Latter-day Saints' hospital, this city, was made Saturday by Mrs. Martina Keate, widow. The will is of date March 18, 1996. The entate consists of cash. \$1700; Utah Sugar stock, \$400; Idaho Sugar atock, \$400, and promissory notes, \$6000; a total of \$10,000.

PROGRESS MADE IN IDEALS OF ART WORK

of Opening of French

PARIS. April 28.-The salon of the Society French Artists opening to the public May I, presents once again the lesson of the survival of the fittest. Although in its one hun-dred and twenty-fourth year, and having passed through many storms and revolts, its New Rules Adopted.

Evidence of this will be seen in the work of the jury of selections of this year. Many burdensome traditions have been abundened, and new rules passed since the beginning of this century, but none so far-reaching as those adopted this spring. Herestofore all members and exhibitors having gained the title of hors concours inct competing) have been exempt from passing the jury of admission, and by dition were accorded the best places on the line, leaving for the great mass little choice of place except skyward.

No Favoritism.

No Favoritism.

By the new rules all must now receive a number for piace on strict equality. Favorit-sm has also been abolished in other direc-tions as well. who have been first are now last, and many who have been first are now last, and many are cast into outer darkness. It is rather hard for those last, but infinitely good for all true lovers of art and strenuous effort. The salon is good throughout, but a serious examination of the merits of each picture worthy of note would be impossible.

COUPON RELIEF FUND

High School Proposition Is Proving a Most Successful One.

The high school coupon relief fund system which was started last Friday. Is proving a most successful means of raising money. A thousand students were out with the coupons yesterday and it would be safe to say that there is not a single residence, store or office in ail of Sait Lake that did not receive from one to a dozen visits from the students. Success Is Reported.

As for success, all report even more than As for success, all report even more than had been expected. The coupon books each contain twenty of the souvenir coupons and each one of these was to sell at 25 cents. Many of the students who got busy selling yesterday sold out their books in less than an hour and went back to the school for a new supply. Many of them sold two and three full books.

Work Will Continue. The work will continue during today and Monday, when the funds will be turned in. The relief work, however, will not cease Monday. Additional books will be given out and the students will continue their good relief work.

FRATERNITY ENTERTAINS

Amici Fidissimis Entertain the Gamma Phi Sororiety.

ma Phi Sororiety.

The boys of the Amici Fidissimi fraternity entertained the girls of the Gamma Phi sororiety at their house last evening. The fraternity house was brilliantly lighted, while the elaborate decorations showed that and ingenuity. In the hall-way Universe pennants were hung in graded sizes om the chandelier to the corners of the hall. Other rooms were decorated in colors of the Gamma Phi sororiety, blue and white, and the colors of the A. F. fraternity, red and gold. On the walls were posted placards with amusing inscriptions. The chaperones were Dr. and Mrs. J. T. Kingsbury, Professor and Mrs. Byron Cummings.

DAUGHTERS OF CONFEDERACY Entertaining Papers Read at Meeting Held on Friday.

Held on Friday.

The regular meeting of the Daughters of the Confederacy was held Saturdar afternoon at the home of Mrs. Shaver. Mr. Philipott of Maryland gave a very interesting paper on ex-Senator Hill of Georgia. Mrs. Pressor then talked on Southern writers and approved of Southern writers and literature being studied in the schools. Mrs. Kate B anderson was the soloist of the afternoon. After the meeting refreshments were served. At the meeting next Friday a paper will be given on "Corgo Cable," and "Red Rock" will be reviewed. All Confederate brethren are urged to be present.

Decree for Defendant.

In the condemnation suit of the Western Pa-cific Railroad company against Julia Maurer, in Judge Lewis's court, a decree was entered Saturday afternoon in favor of the defendant by consent The amount agreed on was not given. The property concerned is bounded by First South, South Temple, Sixth and Seventh West attents.

Dismissed at Plaintiff's Cost.

In Judge Lewie's division of the District court Saturday afternoon Mahala Higgins and others asked for leave to dismiss their suit against the United States Simelter company with costs assessed against themelve. Permis-sion was granted. The suit was for smelter smoke damage in the sum of \$1989.

Soda Springs Contribution. The town of Soda Springs, Ida., has shipped to San Francisco a car of relief supplies containing nine dressed beeves, 5000 pounds of flour, 100 sacks of potatoes, three cases of clothing and 1000 bettles of Idaho mineral water for hospital use.

Realty Dealer Loses Suit. W. G. Tuttle, who sued the Wells, Fargo & Co. express for \$407.50, commission alleged to be due on a real estate sale, falled to convince the court of the justice of the claim, and Judge Ritchle Saturday rendered judgment for the defendant.

St. Mark's Cathedral. Holy communion at 7:30 s. m.; Sunday-school at 9:45; morning prayer and sermon 11; even-ing prayer and sermon, 7:50.

Priest Will Talk.

Joel L. Priest will give a short talk during the intermission of the charity kinderparter benefit April 20, at the Salt Lake theater.

Negro Murderer Lynched.

LUKAN, Miss., April 25.—Will Brown, a negro, was lynched tonight by citizens who hanged him to a railroad trestie for killing W. J. Johnson, a railroad contractor of Corinth, Miss.

Humors Spring

Impure or effete matters accumulated in the blood during the winter cause in the spring such disfiguring and painful troubles as boils, pimples, and other eruptions, also weakness, loss of appetite, that tired feeling.

The best medicine to take is Hood's Sarsaparilla, which thoroughly cleanses the blood, and effects permanent cures by giving healthy functional activity to the stomach, liver, kidneys, bowels and skin.



THOUSANDS TROUBLE AND DON'T KNOW IT



Weak and unhealthy kidneys are responsible for more sickness and suffering than any other disease, therefore, when through neglect or other causes, kidney trouble is permitted to continue, many fatal results are sure to follow.

Your other organs may need attention-but your kidneys most, because they do most and should have attention first.

If you are sick or "feel badly," begin taking Dr. Kilmer's Swamp-Root, the great kidney, liver and bladder remedy, because as soon as your kidneys begin to get better they will help all the other organs to health. A trial will convince anyone.

The mild and immediate effect of swamp-Root the great kidney and ney, liver and bindder troubles, the bindder remedy is soon realized. It stands the highest for its wonderful cures of the most distressing cases, smarting or irritation in passing. Swamp-Root will set your whole system right, and the best proof of this is a trial. 53 Cottage St., Melrose, Mass.

Dear Sir:

"Ever since I was in the army, I had more or less kidney troube, and within the past year it became so severe and complicated that I suffered everything and was much alarmed—my strength and power was fast leaving me. I saw an advertisement of Swannp-Root and wrote asking for advice. I began the use of the medicine and noted a decided improvement after taking Swannp-Root only a short time.

I continued its use and am thankful to say that I am entirely cured and strong. In order to be very sure about this, I had a doctor examine some of my water today and he prenounced it all right and in splendid condition.

I know that your Swann-Root is much

tion.

I know that your Swamp-Root is surely vegetable and does not contain any harmful drugs. Thanking you for my complete recovery and recommending Swamp-Root to all sufferers I am." Very truly yours,

I. C. RICHARDSON.

Root you may have a sample bottle and a book of valuable information, both sent absolutely free by mail. The book contains many of the thousands upon thousands of testimonial letters received from men and women cured. The value and success of Swamp-Root are so well known that our readers are advised to send for a sample bottle. In sending your address to Dr. Klimer & Co., Binghamton, N. Y., be sure to say you read this generous offer in The Salt Lake Sunday Tribune. The genuineness of this offer is guaranteed.

Headquarters in Chicago.

WASHINGTON, April 3.—The Democratic Congressional Campaign committee will maintain branch headquarters at Chicago, with Congressional headquarters at Chicago, with Congressional campaign the approaching Congressional campaign. The principal office will be in Washington, 25 usual.

Fifty wrestlers of all nation

Gotch Is Champion. BUFFALO, N. Y., April 28 - Frank Gotch, the wrestler, tonight won the international heavyweight tournament, which has been in progress all winter in Canada, the finals being

Bank Safe Looted.

KETTLE FALLS, April 25.—The safe of the local bank was opened by burglars last night and \$100 in cash taken. The outside combination was worked by touch or ear, and the inside vault was opened with a chisel. There is no clue to the robbers.

Do Not Rake Up Grass After Mowing Some persons advise raking after each mow-I do not, because the clippings drop down into the grass and form a mulch which I consider of great benefit. They also help to fertilize the soil. The lawn that it not mowed often enough will not look well after you have been over it with the mower, because there was growth enough to partially hide the sward upon which it falls. This will wither and turn brown in a day or two and greatly detract from the beauty of the lawn. But if you keep your lawn well mowed— and that means going over it at least three times a week in ordinary seasone—the amount oilpped off at each mowing will be so slight that there will not be enough of it to show. Do not set the knives so low that they shave the soil. This practice will soon spoil a lawn, as it interfores with the crown of the grass plants. It clips sawy the blades of grass which spring from the surface, and destroys all that part of the plant upon which we must depend for color and soft, plush-like effect. Let the blades be set high enough to leave at least two inches of the foliage. there was growth enough to partially hide

All That Remains of the Buffalo.

All That Remains of the Buffalo.

The buffalo should be preserved and renewed in the forest reserves. The number remaining are but few. Fortunately the little flocks in captivity are wiedly scattered, so that no unexpected epidemic can suddenly complete their extermination.

The Austin Corbin herd at Meriden, N. H., now numbers one hundred and fifty-four fine animals, one-half of which are males. The new herd in the Fellowstone park was started a few years ago with eighteen cows from the Flathead herd, and threa buills from the Goodnight herd in Texas. Three calves have since been captured from the wild herd in the mountains and the total number now is forty-three. They are inclosed in a large field near the Mammoth Hot Springs, and form one of the most interesting spectacles in the park. The wild buffalose in the park at the time of its reservation numbered about four hundred. The poachers and head hunters pursued them remoreelessity until tardily enacted laws put an end to the nearlious traffic. Concealed in the most unfrequented part of the park the calves exposed to woives and mountain lions, the number has steadily declined. Six were found dead in the deep snow last spring, and only about twenty femain alive.

The Flathead herd in Montana, when divided and partly sold a few years ago, had increased to nearly three hundred. They were the progeny of about thirty-five calves saved by the Indians at the time of the final general slaughter, when the hide hunters were engaged in their deadly work. It was a profitable business venture, but the snimals are now worth two hundred and fifty dollars and upwards spices.

Hon James Philip (best known among his friends as "Scotty" Philip) has a herd, near Ft Plerre, S. D. which has increased from about twenty-three to one hundred and eighteen. They are in a climate and locality admirably adapted to the buffalo, among the hinds of the upper Missouri river. These animals are magnificent specimens of the pure plains breed. The Goodnight herd in Texas now number forty-four.—

headache, backache, lame back, dizzi-ness, poor digestion, sleeplessness, nervousness, heart disturbance due to bad kidney frouble, skin eruptions from bad blood, neuralgia, rheuma-tism, diabetes, bloating, frritability, wornout feeling, lack of ambition, may be loss of flesh, sallow complexion, or Bright's disease.

Bright's disease.

If your water, when allowed to remain undisturbed in a glass or bottle for twenty-four hours, forms a sediment or settling or has a cloudy appearance, it is also evidence that your kidneys and bladder need immediate attention. attention Swamp-Root is pleasant to take and

I know that your Swamp-Root is purely vertiable and does not contain any harmful drugs. Thanking you for my complete recovery and recommending Swamp-Root to all sufferers I am. Very truly yours.

I. C. RICHARDSON.

Swamp-Root is not recommended for I bottles of two sizes and two prices — fifty cents and one dollar. Remember the name. Swamp-Root, Dr. Kilmer's Swamp-Root, and the address, Binghamton, N. Y., on every bottle. EDITORIAL NOTE .- In order to prove the wonderful merits of Swamp-

ACCIDENTAL DEATH OF

Los Angeles Paper Comments on Death of Man Well-Known in Zion.

The Los Angeles Times of April 36 devotes more than a column to the accidental death of Charles F. Taggart, well known in Salt Lake, who was killed, while ministering to the San Francisco sufferers after the earthquake and A San Francisco special to the Times, after dealing with the accidental discharge of

a revolver, which caused Dr. Taggart's death, the draf of those who rushed to the aid of the sufforers here from the southern metropo-lis. He had charge of a corps of trained nurses and had been placed in charge of a temporary and had been placed in charge of a temperary relief hespital a short distance from the lim-its of the burned district. Night and day he had been ministering to the sick and injured, for the hespital was filled with victims of the disaster which has befallen the city. For days he did not remove his clothing, getting what sleep he could during the time that the other physicians relieved him. He did not complain, but worked hour after hour as long as his services were needed, and that was almost all the time."

To Protect Auto Victims.

BERLIN. April 19 - The Government introduced in the Reichstag today a project for a law obliging automobilies to pay life annuities to those dependent on persons killed by their motor cars or to persons permanently injured by such accidents.

Heavy Loss at Hollister.

BAN FRANCISCO, April 28.—Details have been received here of the damage done at Hollister, in San Benito county, by the earth-quake of April 18. One life was jost in the disaster and the property damage amounted to about \$100,000. Russian Bomb-Thrower Active. WARSAW. April 38.—At Czenstochowa, in Russian Poland, today, a bomb was thrown at the carriage of the Chief of Police when he was returning from a funeral. The missile exploded, killing a policeman.

Provo Minister to Talk. Rev. R. H. Johnson of Prevo will occupy he pulpit of Hiff M. E. church this evening.

About Rheumatism. There are few diseases that inflict

more torture than rheumatism and there is probably no disease for which such a varied and useless lot of remedies have been suggested. To say that it can be cured is, therefore, a bold statement to make, but Chamberlain's Pain Baim, whi h enjoys an extensive sale, has met with great success in the treatment of this disease. One application of Pain Balm will relieve the pain, and hundreds of sufferers have testified to permanent cures by its use. Why suffer when Pain Balm affords such quick relief and costs but a trifle? For sale by all leading druggists,

LARGE SUMS OFFERED FOR SPECIAL WIRES

Postal People Tell of Insistence While Line Was Overworked.

The press of business in the Sait Lake office of the Postal Telegraph Cable company has made it necessary to call in expeny has made it necessary to call in expert help to tide over the rush, and among seven expert operators who came C. Hollander was one and Chicago is his home. In speaking of the first news of the great earthquake received in Chicago, Mr. Hollander said. Effect of News.

Effect of News.

"We heard the news first about 10 a.m. of our time, and its effect on Chicago people cannot be described. Many of our people had friends in San Francisco, and in the case of a member of the Board of Trade of Chicago, you may see a good instance of how the excitement worked. This man came to our office with a telegram and was informed we had but one wire working and that was leased to the newspapers for a great part of the time, and that we could not guarantee its transmission or delivery.

Wanted to Get Writ.

"He grew wrathy and talked loud, but that could not help him. In his feverish anxiety he sought out the United States judge to get a writ compelling us to take and forward his message. When he found that would not work, he came to us and offered \$1000 for the use of our line for ten minutes.

offered \$1000 for the use of ten minutes

"Chicago swung into line for relief at once, and you all know how nobly they responded." P. B. Hawk of the local office stated that his office received a like offer from a well-known local financier for special privileges in the first hours of the drendful news.

SCIENCE NOTES

Liquid Air.

Liquid Air.

A correspondent at Paris, France, describes the manufacture for industrial purposes of enormous quantities of oxygen and nitrogen, extracted in a liquid state from atmospheric air. As the liquid oxygen flowed out from the generator it was of a bluish hue, while the nitrogen was coloriess. Experiments were made. A forge set up in the grounds showed the wonderful effects of the gas. The fire, which had almost died out, was immediately rendered incandescent by a current of hydroxide from the blowpipe. A har of fron was brought to a red heat and then melted like lead. Two pleces of from were welded in a few minutes by the aid of a powerful flame from the blowpipe. Much costly and sedious riveting will be no longer necessary, from will be welded against from, copper against copper, etc. The doctors already foresee the possible treatment with liquid air.

Liquid air has been tried in mines as an explosive agent, and for this purpose mart is wet with petroleum and then saturated with liquid air. The paste thus formed constitutes a good explosive when fired with fulminate, and has the advantage, when it hangs fire, to be without denger, as the liquid air evaporates very rapidly.

Improved Smelting Furnace.

Improved Smelting Furnace.

An improved smelting furnace recently installed in a foundry in Canada uses coal instead of coke at about one-half the cost, and when smelting the sulphide ores the sulphur is used in combustion, making a still further reduction in expenses. It is stated that this furnace does not require crushing and roasting of the ores, which means a very considerable saving. The following description of the furnace has been published:

"The new furnace is a double one, placed side by side, having connection through the bottoms. Fuel is placed with the charge only in the first. The top of the first is scaled, that of the second is left open. Air is admitted through a double row of pipes, instead of a single row. The pipes are placed in the middle of the furnace, instead of at the bottom, for the purpose of obtaining a perfect combustion. The gases generated by the first pass in fames through the bottom of the first into the second, where there is no fuel, but where, nevertheless, the first pass in fames through the bottom of the first into the second where there is no fuel, but where, nevertheless, the first pass in fames through the best manual of charges are reduced while one is being put through the first according to the amount of sulphur, etc., in the ore used."

New Glass-Making Method.

A new invention in the glass-plate industry is reported from Germany. So far two methods have been employed in the manufacture of crystal plate glass and mirror and window glass the moiten substance from the pots and rolled. The new invention draws the moiten substance from the pots and rolled. The new invention draws the moiten substance from the pot and conducts it between rollers lying side by side. Seventeen plates of these rolleds are plated to the manufacture of crystal plate glass the viscid mass is cast from the pots and rolled. The new invention draws the moiten substance from the pot and conducts it between rollers lying side by side. Seventeen plates of these rolleds are plated to the moiten subst

Distilling Platinum.

Distilling Platinum.

A correspondent writes from Paris that at the last meeting of the Paris Academy of Sciences a well-known French chemist reported with reference to his experiments of distilling platinum and platinum metals. With an electric current of 500 amperes and 110 volts he succeeded in distilling from 20 to 60 grains of platinum in a few minutes. The vaporization of the platinum took place at the high temperature as quietly as, for instance, the evaporation of water at 100 degrees. The platinum condensed in brilliant little plates and cubiform crystals. The molten lime became gray colored from the condensed platinum vapors. He also distilled other platinum metals—osmium, ruthenium, palladium, riddium and rhodium.

Mistakes of the Russian Police

Mistakes of the Russian Police. Mistakes of the Russian Police.

The Czar's whole bureaucracy has for years been so thoroughly detested by all classes of Russians that now it is mainly filed by the least intelligent of the population. And of these the police are the worst. I myself was arrested several times as so many correspondents are, and I found the police in every instance the most dense of mortals. From my newspaper friends I heard scores of stories about this stupidity. These two are typical:

paper friends I heard scores of stories about this stupidity. These two are typical:

Some time ago a man threw a bomb at a Governor, killed him and escaped The Government sent all over the Empire a placard with two photographs of the assasin, his front view and his profile. And three weeks later a policeman in western Siberia telegraphed:

"Have captured both criminals and am bringing them to Petersburg" an innocent, peace-loving professor stood on a bridge staring down into the sluggish waters of the Neva. He was thinking of a rival gravitation.

"That man, said the professor, aloud, "is the dullest idiot in Russia."

Instently a big policeman pounced upon him out of the darkness and without a word began dragging him off. The poor "Why am I arrested?" he asked "What is my crime"

"High treason" growled the policeman.

"Why am I arrested?" he asked "What is my crime?"
"High treason" growled the policeman.
"But why? Why?"
"Oh, don't try to fool me! You called his Imperial Majesty an idlot."
"Heavens" cried the horrified professor, the spectacles failing from his nose. "Why should you think I was speaking of the Czar?"

The big policeman stopped and looked down, puzzled.
"The dullest idlot in Russia." he said. slowly searching his memory. "Who else could he have meant?"—Ernest Poole in The World Today.

Heart Trou

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BEGINNING OF CIVIL

How President Lincoln Met of Southern Rebellion

How President Lincoln Met to of Southern Rebellia Days went on, and by he April the Confederate Governatiself forced to a fatal choice it must begin war, or allow us to collapse. All its claims to sence were denied; the commissent to ashington on the print they were agents of a form were politely refused a hearing one ansay word or provoking on ansay word or provoking to single harmful at had come "Black Republican" Presides in augural he had promised the the South peace and protects ferred them the benefit of the mow, all he proposed to do he had bread to Anderson and his his diers. His prudent policy his where, as he had told them, the south peace and protects forced them the benefit of the mow, all he proposed to begin it. They did choose to he for a fatal and see their labor go for noth officer in charge of their batter ordered to open fire on Fort Anderson refused to surrender dim light of dawn on April II as the outline of Fort Sumisshot that opened the Civil war a rebel battery and made its graceful curve upon Sumer. Se batteries were in action, and he replying with a will. Anderse for a day and a haif, until his were all used up, his fagsia; shot away and the wooden be side the fort were on fire. The ships with supplies had not preside the fort were on fire. The ships with supplies had not preside the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict the fort were on fire. The ships with supplies had not predict th

meet in special session of it. The North railied instantly is port of the Government, and twice the number of soldiers is Nothing more clearly show ence between President in President Buchanan than its which the two men met its Southern rebellion. President temporized and delayed with plenty of power. President Is out a moment's hesitation, as great and unusual responsituopon him, and at once issued buying ships, moving troop, money to committees of salet, other military and naval man which at the moment he had is authority from Congress.—Heis in St. Nicholas.

Age of the Earth

The best geological estimates of our globe are in closs writes Charles Rollin Keyes in the can Monthly Review of Review the time when the record of fied rocks began to the present are something over 1000. While some of the estimates siderably both above and beir riod mentioned, the general not materially affected. A general not materially affected and for the ground benefit there has been found benefit there has been found benefit has elapsed since the beginn equal, at least, to the suith has elapsed since the beginn Paleozoic era. Taking into on this fact, even Danas estimated, and reaches very nearly 600 mark.

Biologists tell us that at the of Paleozoic time if its in general nearly increased in general nearly increased in the figures cities and laid down, that was very very early period, possibly, was not as long as from Cambrian in present, as the figures cities gest, but it certainly was all as long as from Cambrian in present, as the figures cities gest, but it certainly was all or three times as long. From different sources one can arrive parative scheme. If we consider the figures of the Archesot for Proterozoic time 3. Paleozoic time 3. Paleozoic time 5. Conozoic time obtain for the total numbers of the pales.

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